

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior versions of the claims in the Application. With reference to the listing it is noted that, herewith, claims 1, 8, 15, and 16 are amended. No new matter has been added.

Listing of Claims

1. (Currently Amended) A data processing apparatus for decoding and reproducing object data separated from a coded bit stream including at least object data of moving image and audio, based on first time information for synchronization management of the moving image and audio included in the object data, said data processing apparatus comprising:

obtaining means for obtaining a speed conversion request from the outside, the speed conversion request including information on a speed conversion magnification;

obtaining means for obtaining information on a request time when the speed conversion request is obtained;

a) time information calculating means for calculating second time information for synchronization management of the moving image and audio, ~~based on a speed conversion request from the outside~~ by using the information on the speed conversion magnification and the information on the request time;

b) setting means for setting the second time information calculated by the time information acquiring means, as the first time information; and

e) decoding means for decoding the object data, using said second time information.

2. (Original) An apparatus according to claim 1, wherein the coded bit stream includes a bit

stream based on MPEG-4.

3. (Original) An apparatus according to claim 1, wherein the object data of audio includes data coded by high-efficiency compression coding according to a coding method having a reproduction speed conversion function.
4. (Original) An apparatus according to claim 1, further comprising extracting means for extracting the first time information from an access unit of the object data fed into a buffer for decoding target data.
5. (Original) An apparatus according to claim 1, wherein the decoding means of the object data of audio has a reproduction speed conversion function.
6. (Original) An apparatus according to claim 1, wherein the time information includes a DTS (Decoding Time Stamp) and a CTS (Composition Time Stamp).
7. (Original) An apparatus according to claim 1, further comprising notifying means for notifying the decoding means for the object data of audio, of a reproduction speed magnification factor indicated by said speed conversion request.
8. (Currently Amended) A data processing method for separating and decoding a bit stream including object data of one or plural coded moving image and audio, in units of the object data, compositing the one or plural object data thus decoded, and outputting the result of composition,

said data processing method comprising:

an obtaining step of obtaining a speed conversion request from the outside, the speed conversion request including information on a speed conversion magnification;

an obtaining step of obtaining information on a request time when the speed conversion request is obtained;

a) an extraction step of specifying and extracting an area of first time information for synchronization management of the moving image and audio from the object data;

b) a setting step of calculating second time information for synchronization management of the moving image and audio, ~~based on a speed conversion request from the outside~~ by using the information on the speed conversion magnification and the information on the request time, and setting the second time information as the first time information; and

e) a decoding step of decoding the object data, based on the second time information.

9. (Original) A method according to claim 8, wherein the bit stream includes a bit stream of MPEG-4.

10. (Original) A method according to claim 8, wherein the object data of audio includes data coded by high-efficiency compression coding according to a coding method having a reproduction speed conversion function.

11. (Original) A method according to claim 8, wherein said extraction step includes a step of extracting said first time information from an access unit fed into a decoding buffer for the object data.

12. (Original) A method according to claim 8, wherein said decoding step includes a reproduction speed conversion function.

13. (Original) A method according to claim 8, wherein the time information includes a DTS (Decoding Time Stamp) and a CTS (Composition Time Stamp).

14. (Original) A method according to claim 8, further comprising a notification step of notifying an audio decoder for decoding the object data of audio, of a reproduction speed magnification factor according to the speed conversion request.

15. (Currently Amended) A computer-readable program for causing a computer to execute a data processing method set out in any one of ~~claim 8~~ claims 8-14.

16. (Currently Amended) A computer-readable memory storing a data processing program for separating and decoding a bit stream including object data of one or plural coded moving image and audio, in units of the object data, compositing the one or plural object data thus decoded, and outputting the result of composition, said data processing program comprising:

a code of an obtaining step of obtaining a speed conversion request from the outside, the speed conversion request including information on a speed conversion magnification;

a code of an obtaining step of obtaining information on a request time when the speed conversion request is obtained;

a) a code of an extraction step of specifying and extracting an area of first time

information for synchronization management of the moving image and audio from the object data;

b) a code of a setting step of calculating second time information for synchronization management of the moving image and audio, ~~based on a speed conversion request from the outside~~ by using the information on the speed conversion magnification and the information on the request time, and setting the second time information as the first time information; and

e) a code of a decoding step of decoding the object data, based on the second time information.